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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2018/0297486 A1****HOWARD et al.**(43) **Pub. Date: Oct. 18, 2018**(54) **ROLLER COASTER WITH PASSENGER COMPARTMENT MOTION POWERED THROUGH STORED ONBOARD ENERGY**(52) **U.S. Cl.**
CPC **B60M 7/00** (2013.01); **A63G 31/02** (2013.01); **B60M 1/30** (2013.01)(71) Applicant: **DISNEY ENTERPRISES, INC.**,
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BURBANK, CA (US)(21) Appl. No.: **15/486,871**(22) Filed: **Apr. 13, 2017****Publication Classification**(51) **Int. Cl.**
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A63G 31/02 (2006.01)(57) **ABSTRACT**

A roller coaster with a vehicle rolling under gravity along a track defining a ride path. The vehicle includes a chassis coupled to the track to roll on one or more surfaces of the track, and the vehicle includes a passenger compartment mounted on the chassis. The coaster also includes a compartment positioning mechanism that operates to move, such as with yaw, the passenger compartment between a first position in a passenger load/unload section of the ride path and one or more differing positions in the gravity-based ride section of the ride path. The coaster includes a power supply assembly with a charging element mounted on the track. The power supply assembly includes an onboard energy storage mounted on the vehicle that is charged by the charging element. The onboard energy storage powers the compartment positioning mechanism to move the passenger compartment between the first and second positions.

